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	Asp	Asn	Pro	Lys 20	Trp	۷al	Asn	Arg	His 25	Lys	Phe	Met	Phe	Asn 30	Phe	Leu	
			j	•					-•								
	Asp	Ile	Asn 35	Gly	фeА	Gly	ГЛS	Ile 40	Thr	Leu	Asp	Glu	Ile 45	Val	Ser	Гуз	
	Ala	Ser 50	Asp	Asp	Ile	Cys	Ala 55	Lys	Len	Gly	Ala	Thr 60	Pro	Glu	Gln	Thr	
			- {														
	Lys 65	Arg	His	Gln	qeA	Ala 70	Val	Glu	Ala	Phe	Phe 75	Lys	Lys	Ile	Gly	Met 80	
	Asp	Tyr	G1	Lys	Glu 85	Val	Glu	Phe	Pro	Ala 90	Phe	Val	qaA	GŢĀ	Trp 95	Lys	
	Glu	Leu	Ala	Asn 100	Tyr	Asp	Leu	Lys	Leu 105	Trp	Ser	Ģln	Asn	Lys 110	ГЛа	5er	

05/01

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 120 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 140 🐔 130 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 155 - 150 145 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu Tyr Gly Asn Phe Val Pro 195 <210> 2 <211> 198 <212> PRT <213> Unknown <220> <223> Clydin mutant: mutClyKl <400> 2 Met Ala Asp Thr Ala Ser Lys Tyr Ala Val Lys Leu Arg Pro Asn Phe Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser Asp Asp Ile Ser Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr 50 Lys Arg His Gln Asp Ala Val Glu Ala Fhe Phe Lys Lys Ile Gly Met 65 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys

90

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 135

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 145

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 170 175

Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Ash Ala Asp Gly Leu 180 185 190

Tyr Gly Asn Phe Val Pro 195

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Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 70 75 80

50 55 60 1

Asp Ile Ash Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Arg

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 75

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys 95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 120

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys AlaTyr Gly Arg Ile 130 135

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 150 150

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 170 175

Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Asp Gly Leu 185

Tyr Gly Asp! Phe Val Pro

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Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu

Asp Tle Ash Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys 35

б

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr 50 55 60

Lys Arg His Arg Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 70 75 80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Val Phe Val Asp Gly Trp Lys 85 90 95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser 100 105 110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 | 135 140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 145 150 155 160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 170 175

Gln His Leu Gly Phe Trp Tyr Ile Leu Asp Pro Asn Ala Asp Gly Leu 180 185 190

Tyr Gly Asn Phe Val Pro

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Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr 50 55 60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 70 75 80

Asp Phe Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys 90 95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Asn Lys Ser : 100 105 110

Leu Ile Arg' Asp Trp Gly Glu Ala Val Phe Asp Ile Leu Asp Lys Asp 115, 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 140

Ser Gly Ile Cys Arg Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 145 150 155 160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 170 175

Gln His Lew Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu 180 185 190

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Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr 50 55 60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 | 70 75 80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys 90 95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser 100 105 110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 | 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Cys Arg Ile 130 135 140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg

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Tyr Gly Asn the Val Pro

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Asp Asn Pro:Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu i 20 25 30

Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
35

Ala Ser Asp'Asp Val Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 70 75 80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser , 100 105 110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 , 135

Ser Gly Ile Cys Arg Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 145 150 155 160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg

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Tyr Gly Asn Phe Val Pro

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<211> 198

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Ala Ser Asp Asp Ile Cys Ala Arg Leu Gly Ala Thr Pro Glu Gln Thr
55 60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met 65 70 75 80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys 85

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser 100 105 110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp 115 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 : 135

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 145 . 150 155 160

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Tyr Gly Asn Phe Val Pro

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Ala Ser Asp Asp Ile Cys Ala Lys Leu Glu Ala Thr Pro Glu Gln Thr

Lys Arg His Gln Val Cys Val Glu Ala Phe Phe Arg Gly Cys Gly Met

Glu Tyr Gly Lys Glu Ile Ala Phe Pro Gln Phe Leu Asp Gly Trp Lys

Gln Leu Ald Thr Ser Glu Leu Lys Lys Trp Ala Arg Asn Glu Pro Thr

Leu Ile Arg Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp 115

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile 130 1 135 140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His 155

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg 165 170 175

Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu 185

Tyr Gly Ash Phe Val Pro 195

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tgcgac	ctgg	acsacagogg	czagctggac	gtggacgaga	tgaccagaca	geacetggge	540
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accctg	gacg	agatcgtgag	cagggccagc	gacgacatct	gcqccaaget	gggcgccacc	180
cccdad	caga	ccaagagaca	ccaggacgcc	gtggaggcct	tetteaagaa	gatoggcatg	240
gactac	ggca	pggaggtgga	gttcccagaa	ttcgtggacg	gctggaagga	gctggccaac	300
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cccgagcaga	ccaagagaca	ccdddscdcc	gtggaggcct	tcttcaagaa	gatoggcatg	240
gactacggca	aggaggtgga	gttccccgtc	ttcgtggacg	gctggaagga	gctggccaac	300
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tacggcagaa tcagcggcat ctgcagaagc gacgaggacg ccgaaaagac cttcaagcac

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